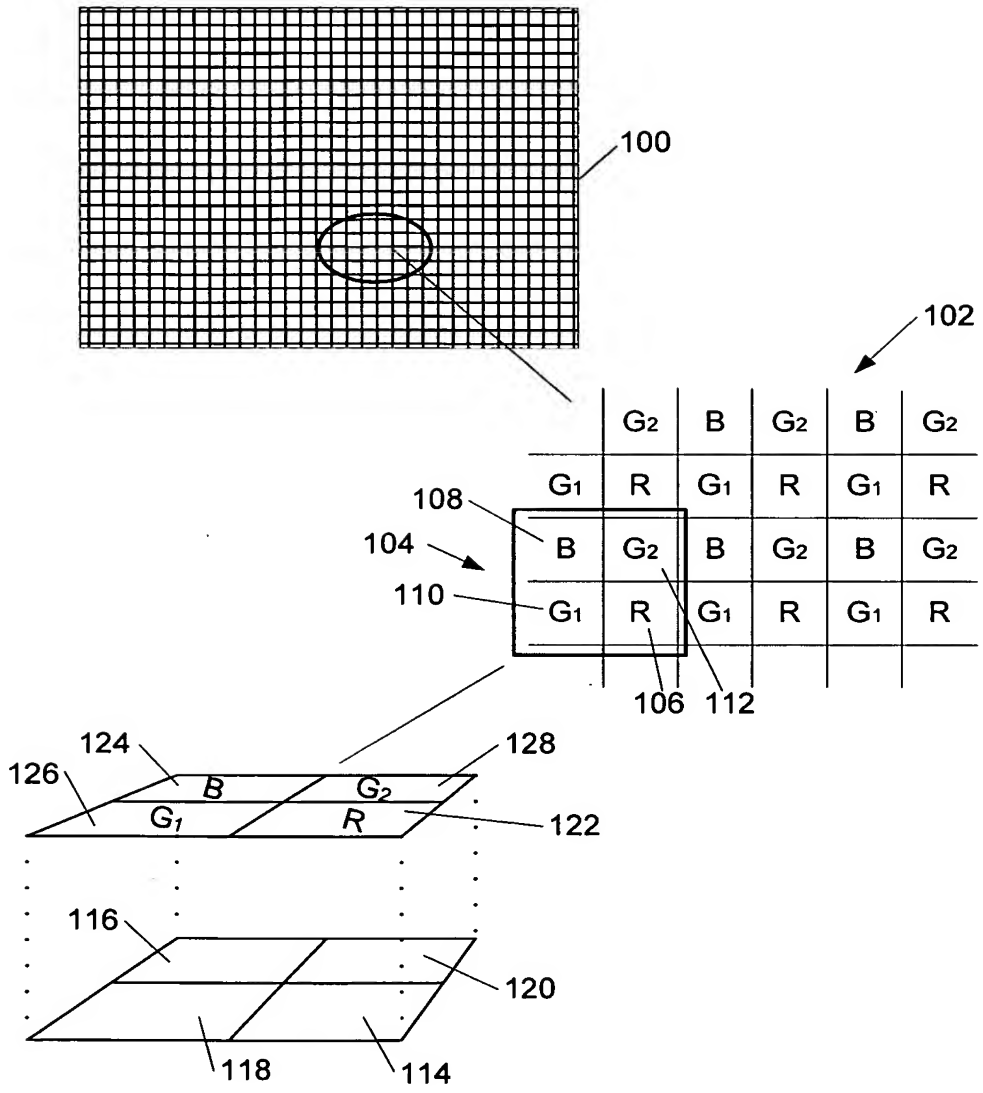
100
102
G2 B G2 B G2
G1 R G1 R G1 R
B G2 B G2 B G2
G1 R G1 R G1 R
108
104
110
106
112
124
126
128
B
G2
G1
R
122
116
120
118
114

FIG. 1

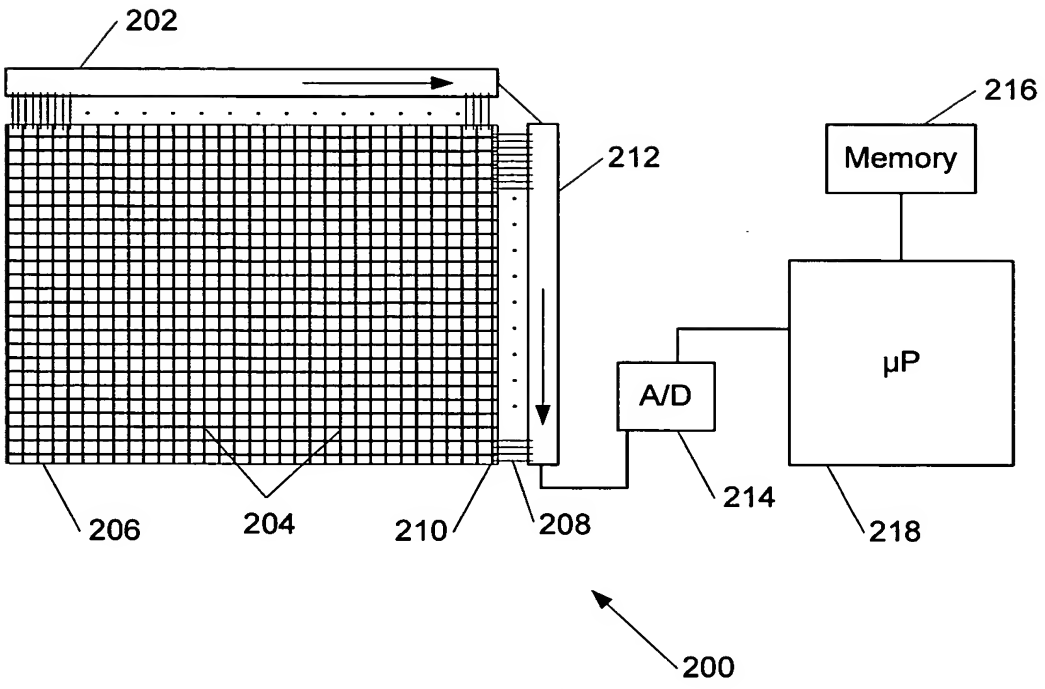

FIG. 2

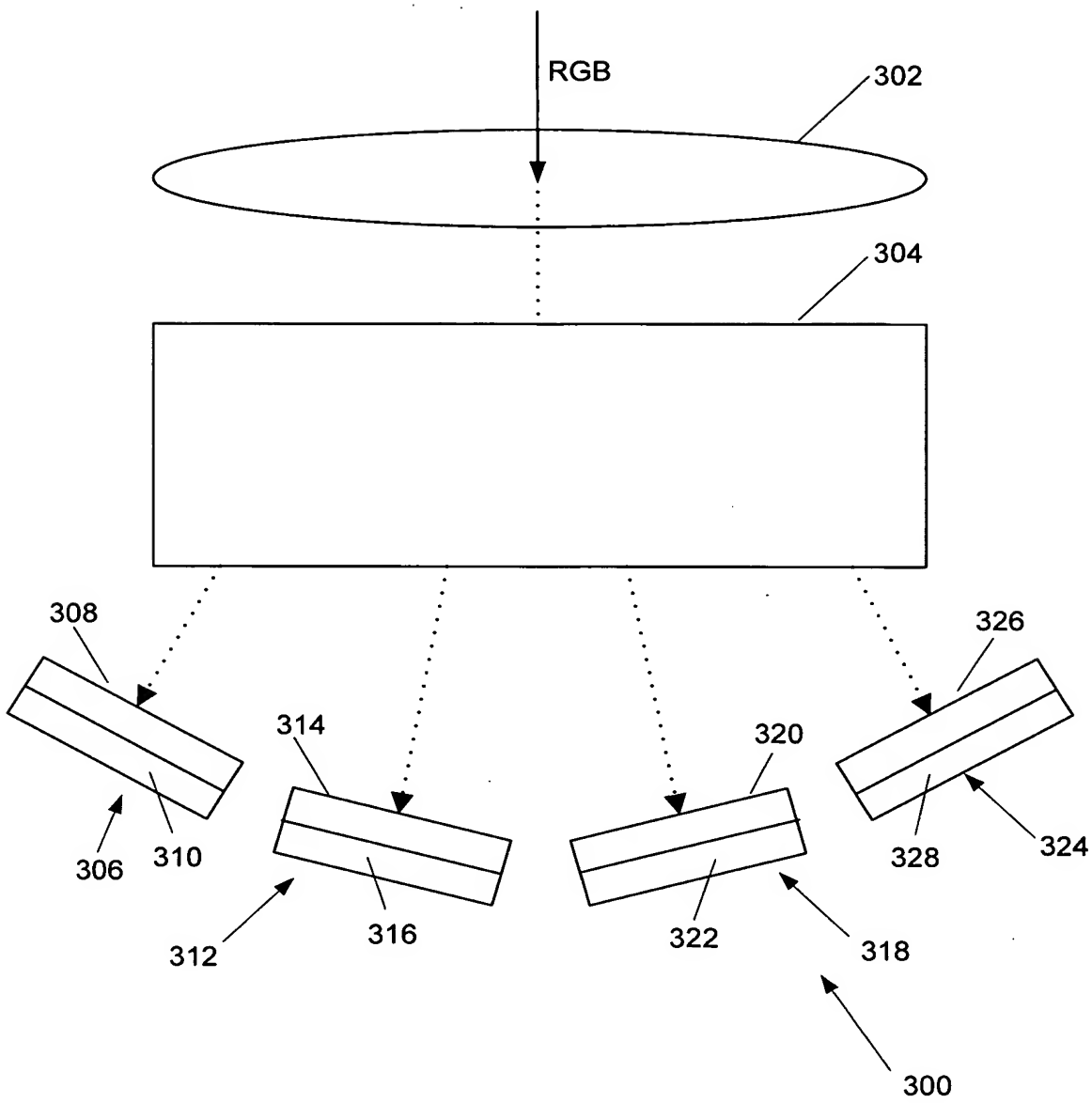

FIG. 3

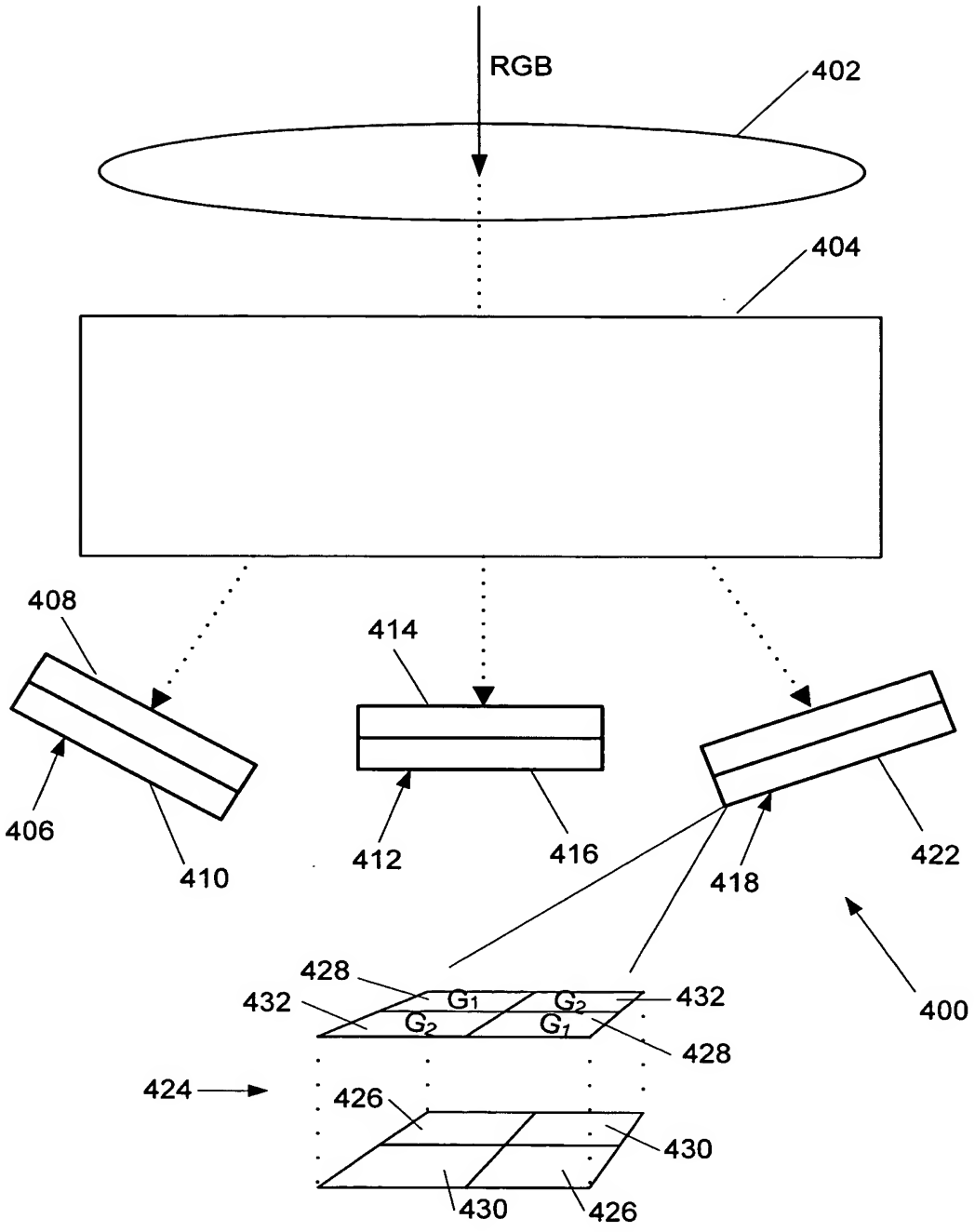
RGB
402
404
408
414
406
410
412
416
418
422
400
428
432
G_1
G_2
G_2
G_1
432
428
424
426
430
430
426

FIG. 4

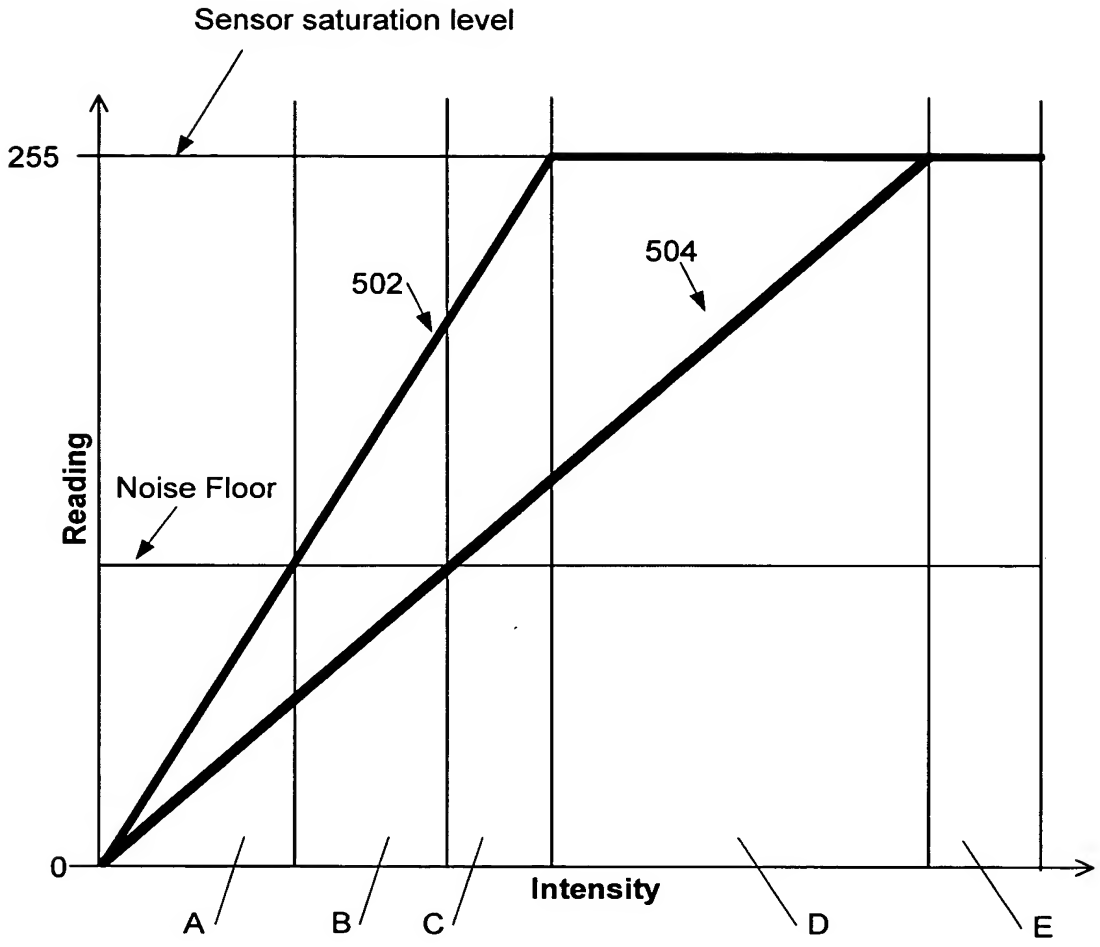
Sensor saturation level
255
502
504
Noise Floor
Reading
0
Intensity
A
B
C
D
E

FIG. 5

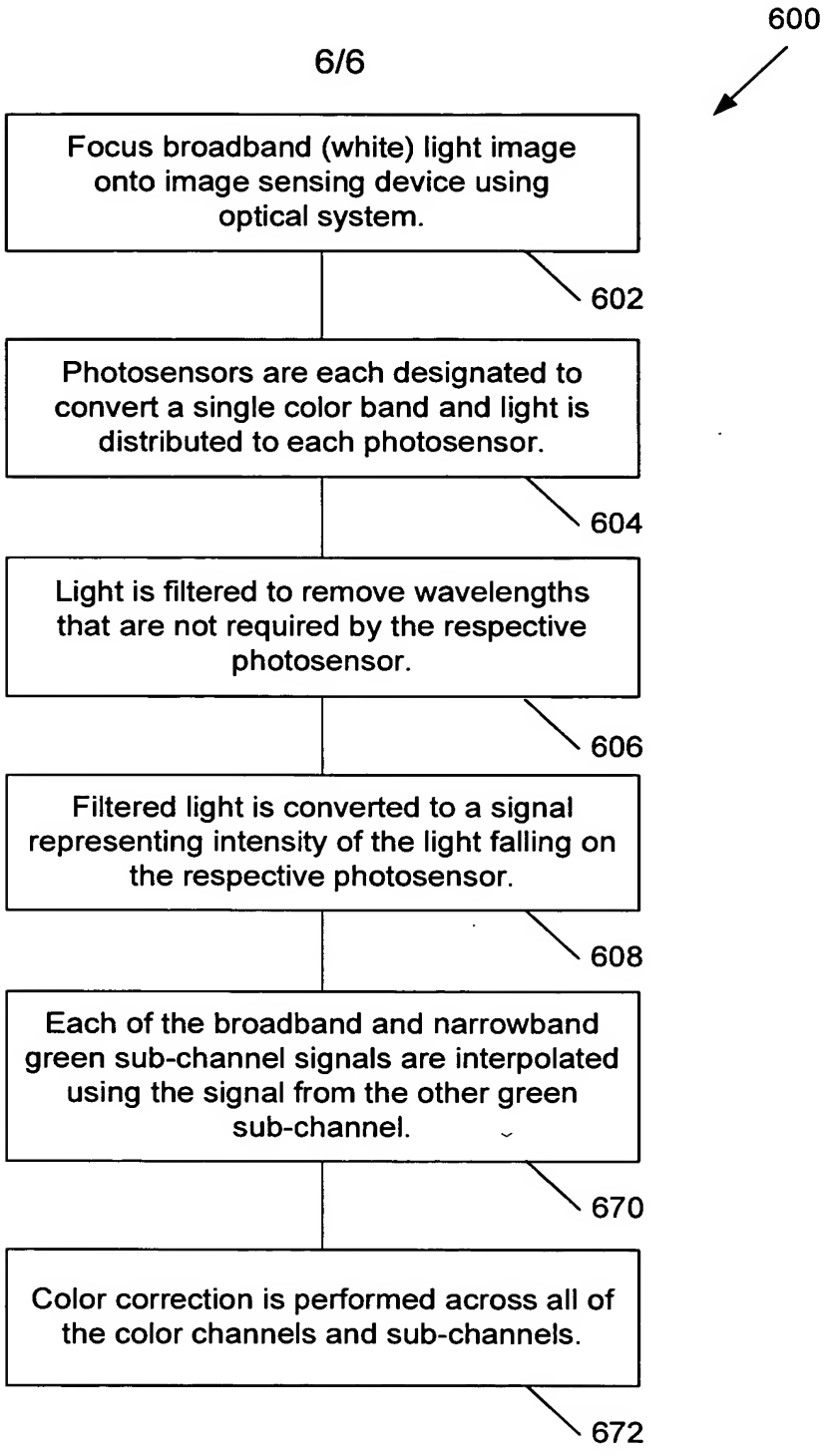
600
Focus broadband (white) light image onto image sensing device using optical system.
602
Photosensors are each designated to convert a single color band and light is distributed to each photosensor.
604
Light is filtered to remove wavelengths that are not required by the respective photosensor.
606
Filtered light is converted to a signal representing intensity of the light falling on the respective photosensor.
608
Each of the broadband and narrowband green sub-channel signals are interpolated using the signal from the other green sub-channel.
670
Color correction is performed across all of the color channels and sub-channels.
672

FIG. 6